

1381 agccctcatc cactgccctc cctctagtga accacgagac tgccaagggtg atccagaccg
1441 ccttcacgag agccagctac ccagatatca cgggcgagaa ggccatgatg ctccttggcc
1501 aagtcaagta tgggttgac aagtgagtcg ggcctcgggt gtgacctggc tgggggtagg
1561 gtggcgggag gaacagcctg ggcttcccc agccacaggg aggaaaggca gcagctgggg
1621 gactcaggtc tctcccctg atttgaacc agagcc

Genbank M32993

1381 agacaggta gaaaggaaaa gctcatatct acggagtcga tcctgcattc caagcaccac
 1441 actaactcag agataaaact ctagccaagc taagtaactt gctgaggaca cacaactcgc
 1501 cactaaggga tgggagtagg acccatttga acccagactt ctctgacccc agaagctgag
 1561 ttccatagata ctttactctc ctgcttccca ggggtggggt tttgtcttg gccaacaccc
 1621 tctgtcaagg agctgtggtg accccattgc acagaggaag ataacaagggt ttggagagtc
 1681 cctagtcatg ttaccaatgc caaacctgga aggcagaagg gaactggtgg gtgggggtctg
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 1801 gaatttgac tctagacacg ttctcgtgtg tgtgacaggt gtgagcgtca caggagctgg
 1861 gccctccga ggaattctgg atgggtccac agttaattct tgggtctgag gctccgtgtt
 1921 ctactgcaa aatgggagtg ataattctta ctctcagc tacaagagtc agggccaaca
 1981 gagccatgaa ggagcctgg acacactagg cgctccatgg atgcacagga ctggtcaggg
 2041 gctcattgtg gtgcttgctg ccttcaggcc tgggtggatc aagcagctgt tcacaaattt
 2101 catctcctc accctgaagc tggctctgaa gggacaggtg agtgaggctg gctgactccc
 2161 tgtggtccag gccatgccc ggaggtgga tcccttctc cctgcctt cctgagaag
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 2281 accacgcagc tggaaggagg cactccgtct ggctcctt cctgcctgga aagcacctgc
 2341 tctgtctgcc ccagatctgc aaagagatca acgtcatctc taacatcatg gccgattttg
 2401 tccagacaag ggctggtgag tgcgtttctg tctgcatgcc tcagaagaca gcagtgggag
 2461 ccagaaagcc acctgctgca ctatgtggcc ttgggactgt cactcttct gtctaggtcc
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 2761 tacagagcag agctgggtt cagcccaagt ctggactct gctctgaacc aacctctag
 2821 aagggtctc cctaccaga cagacagact tgggaaaaga gagaatgaaa aagtgccaca

2881 cccctccccg cacaccagg tcccacttta cagaggggaa cactgaggct ggagggttgg
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 3301 cctgacccc tctctgcagg caccagggt gccactaca aggatcccag caaagcacca
 3361 gtccttctct agagggtta ttgggtctt gtcacctct acagcagtgg attgtggccc
 3421 cccccagggg gtactgacaa aagctt

Figure 3: CETP Genomic Sequence (SEQ ID No:3)

Genbank No: M32997

1 acatggtgca catgcctgta gtcctagcta ctggtggct gaggtagaca atcgcttgaa
61 cctgggacgt ggagggttga gtgagctgag atcgtgccac tgccctccag cctgggcaac
121 agagtgagac tgtctcaaaa acaaaaaaag aaaagaaaag aaaaagaaag tgacttctca
181 ggtcctaacc ccaaagccac aggtgctggg gaactttct cgttttcag aagagcagta
241 gctaagcctg gttcccggt catcctggc tctccagtc ctacgtggaa agaatacagg
301 gccctgagct aggagggttg ctctctgctt cgggaagagc cctggctcac agcaaatttg
361 gtttctctcc ccaggatata gtgactaccg tccaggcctc ctattctaag aaaaagctct
421 tttaagcct ctgggatttc cagtatgtgc tgcagagaag agaagggggc ggtcaactcc
481 gcaaacctct ccttggtccc ttggagtac gcacagggcg ggggtgtgtt ggggaaatgt
541 ggccccttct ttctggggca tatgggtga ctgcaggga gataagaccc tgcctagata
601 gaatcttcgt ggggaagaag gggctccagg aagaatggag ggctgccagg aagaagcct
661 gagctatgag aaaaagcac tggctgctat tcttagagtt tcttcccag gggatgttac
721 aggagggggc ccaatggagg gtcaaattat catcgctttt ttatttcagg attacacaa
781 agactgttct caacttgact gaggtagga gtcttggata gactggggga aataagtct
841 gtgggacctc ctgccttaaa gaaagcaggc ggagggccct aaaggaaatc aggcaaccag
901 accaaaagaa tgtgaccagg tggatcatgc tgtgtctctt gtgaccttc tctccctgc
961 catgtctttt gggagagccc ttgtgttga aaaatgagag tgtggtgga tggattgggg
1021 tttaggcaga acagtactgg ccaagcagcg ctccctggac ctcaatttc cctctgtgga
1081 atgggctagc aatcctgggc ctcccaggc cgaaggaaag accactcagg aagggcaccg
1141 tctggggcag gaaaacggag tgggttgat gtatttttt cacggatggg catgaggatg
1201 aatgctgtc caggccgtgc agcatctgc ttgtgggtca ctctgtgtc ccaggaggga
1261 ctacacatgg gcatttgatt gcagagcagc tccgagtccg tccagagctt cctgcagtca
1321 atgatcaccg ctgtgggcat cctgaggtc atgtctcgt agtgtgggct ggaggggaaa

1381 ctgggtgccg aggctgacag agcttcccat ttcaccttt

400 bp 1381 bp

Figure 4. CETP Genomic Sequence (SEQ ID No:4)

Genbank No: M32998

1 ggatgggttg ggagctcaag tttggggca gaagggaatt tttttggca gcagagtga
61 agccctgccg ccaggcaaac tctgctcttc ctcatctca gaagcacttg ctactctgc
121 taaatcaaag tgaacgcat gtttacagaa tatttgtcca aaagggtctc agcatctccc
181 actaccagg gtgcagagcc tcgggccggc cttgctcccc aagaagggt gactggggct
241 ctgtcccctc gccagggt cgaggtagt ttacagccc tcatgaacag caaaggcgtg
301 agcctcttcg acatcatcaa ccctgagatt atcactcgag atgtgagtac aaagccccc
361 tcaccagccc ctgttcttg ggagagaggc ccagacagga ttctgggt gactgggggc
421 tgttggggag acagacagag gggcctctac cagcttggt cctcctggt ggctgggag
481 tcagcccagc tcgccctct ctctactgc cctcccttc agggcttct gctgctgcag
541 atggactttg gcttccctga gcacctgctg gtggatttc tcagagctt gagctagaag
601 tctcaagga ggtcgggatg gggctttag cagaaggcaa gcaccaggct cacagctgga
661 accctggtgt ctctccagc gtggtggaag ttgggttagg agtacggaga tggagattgg
721 ctcccaactc ctccctatcc taaaggccca ctggcattaa agtgctgtat ccaagagctg
781 cggagtcctt cttctgtgc tggcgggtag aggggggggg aagggttgt ctaccagtg
841 ccgtccacct ctttcagcc ctccaagca gctgccccca aacctccaa gctt

10032998.1.22.101

Figure 5: CETP Alleles

Intron 1 (707):

Allele 1: GTTCTTTGGT G AGAAGGTCCT (SEQ. ID. No:5)

Allele 2: GTTCTTTGGT A AGAAGGTCCT (SEQ. ID. No:6)

Intron 8 (3707):

Allele 1: TGGCCTGAAC C TGATCGCGGACC (SEQ. ID. No:7)

Allele 2: TGGCCTGAAC T TGATCGCGGACC (SEQ. ID. No:8)

Intron 8 (3946):

Allele 1: GATGATCTAG A GGGGCGGGGG (SEQ. ID. No:9)

Allele 2: GATGATCTAG T GGGGCGGGGG (SEQ. ID. No:10)

Promoter (VNTR):

GAAA and GAA repeats between -2144 and -1974 from translational start site. Alleles are defined by variation in size.

Insertion (307):

Allele 1: GAATGGAGGG AGGGCCTGGC (SEQ. ID. No:11)

Allele 2: GAATGGAGGG CTGCCAGGAAGAAGG AGGGCCTGGC (SEQ. ID. No:12)

Intron 15 (493):

Allele 1: AGCCCAGCTC G CCCCTCTCTC (SEQ. ID. No:13)

Allele 2: AGCCCAGCTC A CCCCTCTCTC (SEQ. ID. No:14)

Figure 6.

CETP Polymorphisms

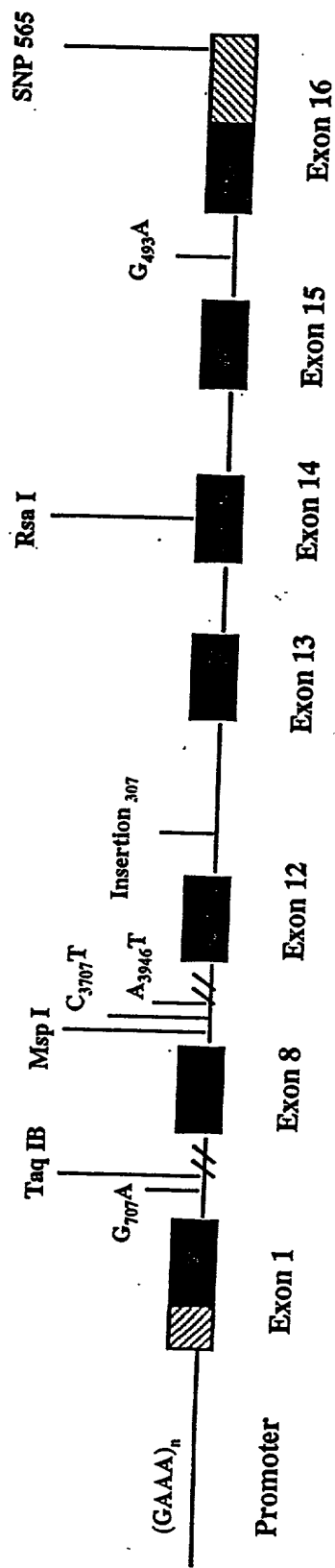


Figure 7

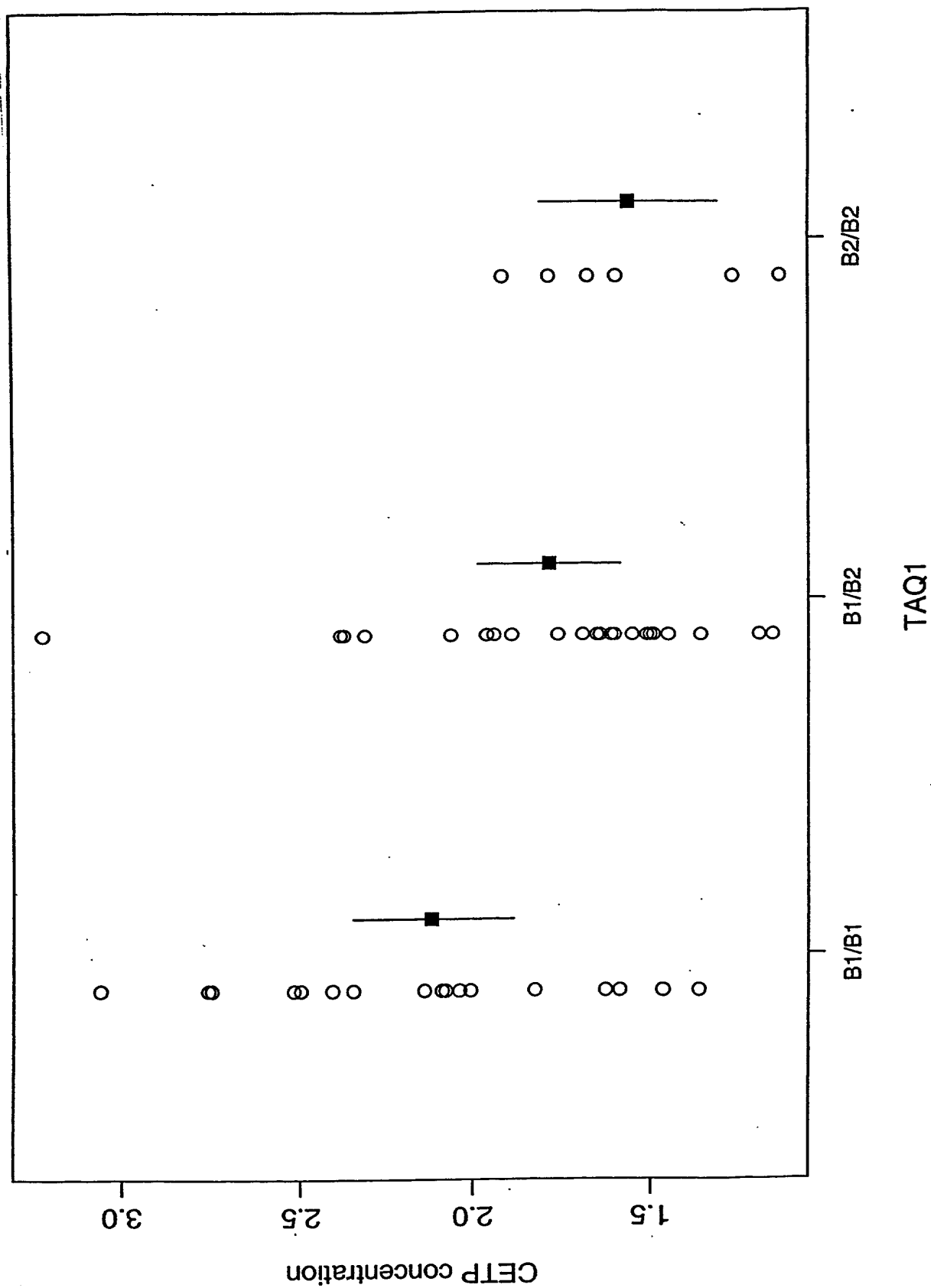


Figure 8.

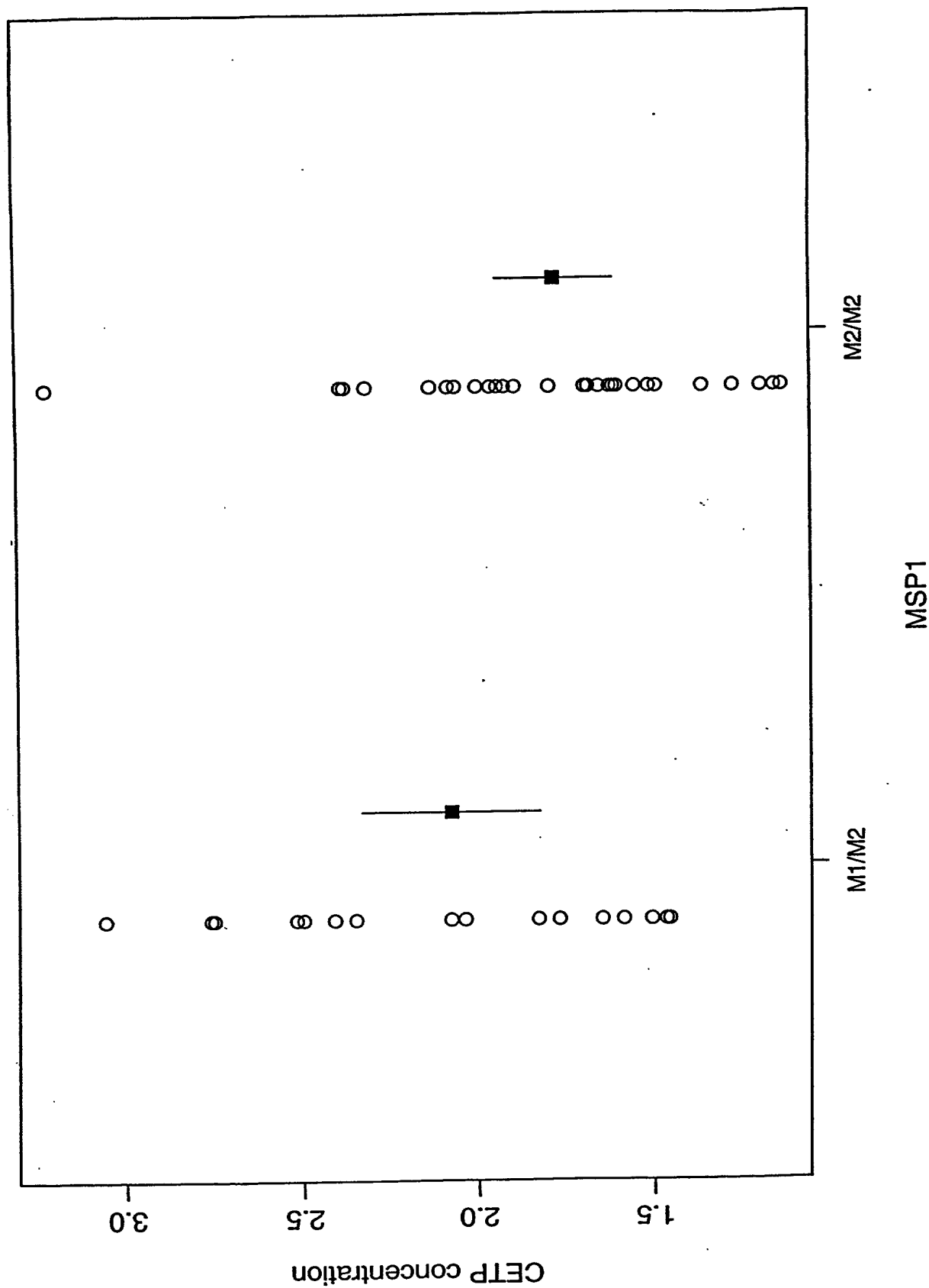


Figure 9

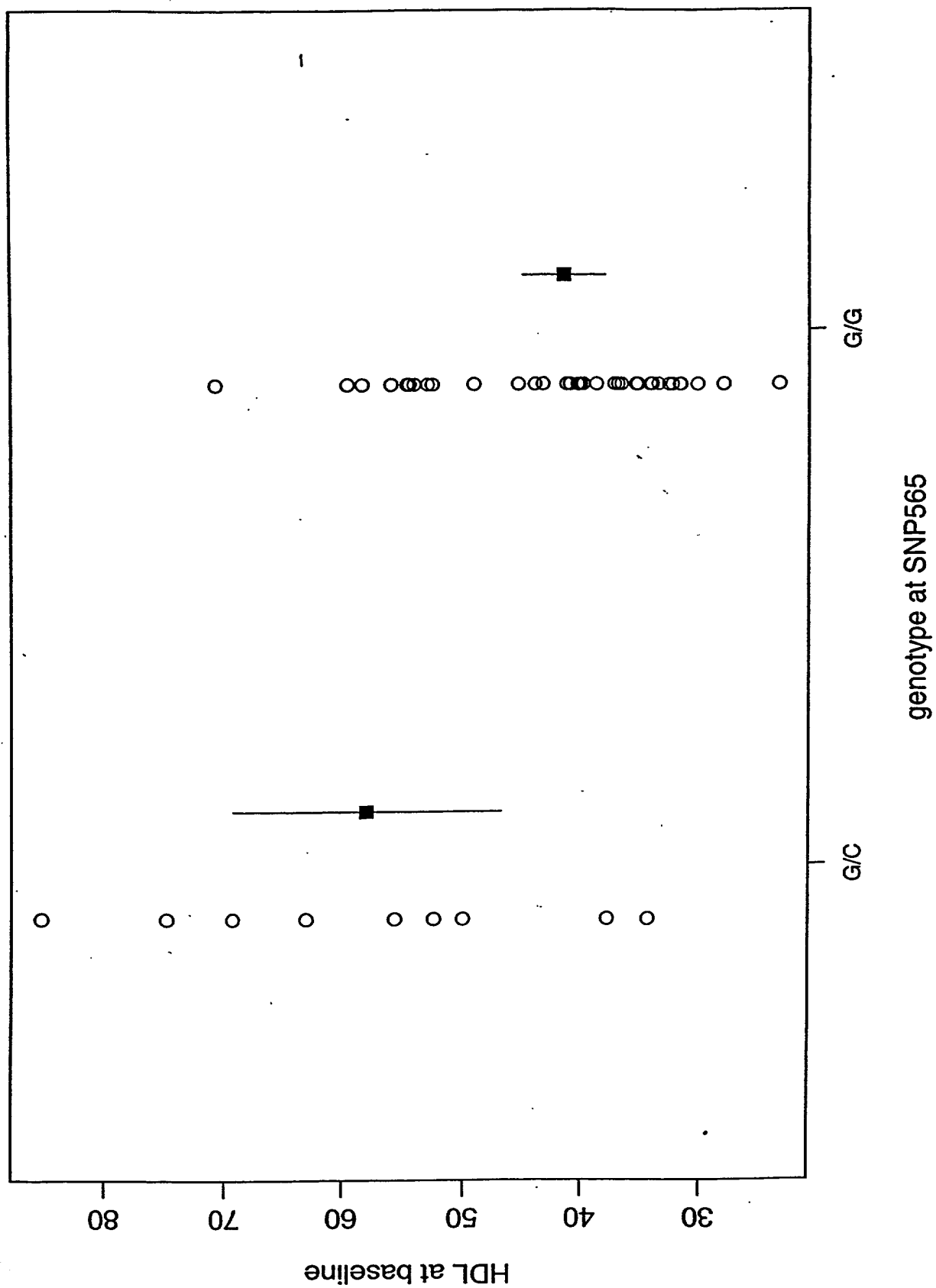


Figure 10.

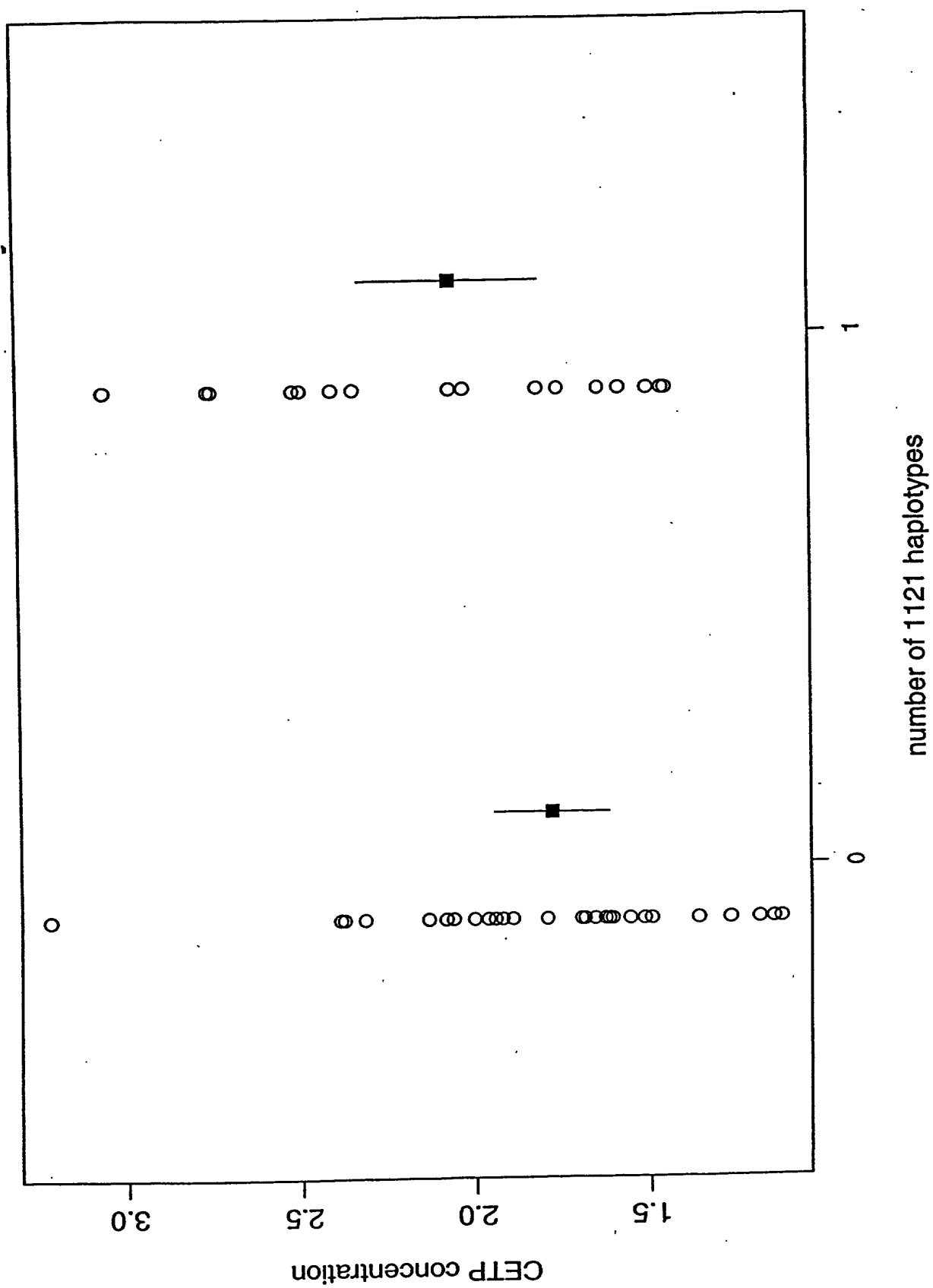


Figure 112007

